

Design for fountain**1. COMPONENTS**

- 1) Solar panel
- 2) Pump with cable
- 3) Nozzle accessories

**2. OVERVIEW**

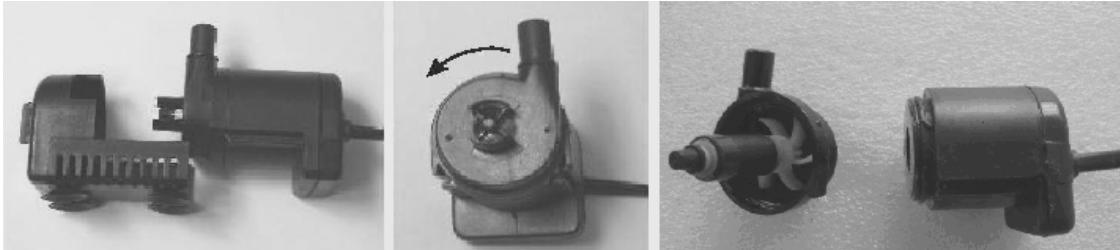
- 1) The solar pump is designed for indoor or outdoor fountain use, and is powered by a solar panel. In order to make the pump work, the solar panel needs to be placed in the sun to face the direct sunlight.
- 2) The performance of the pump depends on the direct sunlight intensity and the orientation of the solar module.

3. ASSEMBLING

- 1) Unpack all components carefully.
- 2) Connect the plug on the pump to the socket on the resin rock (see the right photo for demonstration).
- 3) Connect the nozzle with the pump tube. The attached nozzle can produce 4 different jet shapes.
- 4) Make sure to place the pump fully underwater when the pump operates.
- 5) To produce the excellent fountain effect, please kindly leave the fountain head or nozzle 5 - 10 cm above the water surface. The solar pump is now ready to operate.

**4. CAUTIONS**

- 1) Any altering of the product itself or changing of the components is forbidden.
- 2) Do not connect the pump to any AC voltage power directly, it's ONLY for DC Voltage power.
- 3) Operate the pump in freshwater or saltwater only (never above 50°C), especially keep it away from flammable liquids.
- 4) Do not strike the solar panel.
- 5) Do not let the pump run dry.

5. CLEANING AND MAINTENANCE

If after a while the pump starts losing power or stops working, please clean up sediment in the pump shell or filter cribs. Kindly note the pump can be opened by pressing down on the bottom of the filter housing (see the above photo for demonstration).

To clear the impeller, open the pump housing at the front by sliding up the front plastic cover.

The solar module should only be cleaned with soft tissue or propriety glass cleaning solution.

6. FUNCTIONALITY PROBLEMS

* *Pump does not operate even though the solar module is in full sunlight.*

- No connection to the solar module - check connection to the solar module.
- Impeller is blocked - to clean the pump, remove the front plate and the impeller, use a brush or water to remove any debris.

* *Pump does operate but there is no water running through the tubes*

- Clear the tube and the filter to make sure the tube is through completely.

7. TECHNICAL DATA

Operation voltage	6 V
Power output of solar panel	1.5 W
Maximum Water Lift Height	0.75 m
Maximum Flow Rate	175 l/h
Cable	5 m